

## 6AG7

## **POWER PENTODE**

SINGLE-ENDED METAL TYPE

	GENERAL DATA	
	Electrical:	
/	Heater, for Unipotential Cathode:  Voltage 6.3 ac or dc volts  Current 0.65 amp  Direct Interelectrode Capacitances:  With Pin No.1 and Pin No.3 connected to Pin No.5  Grid No.1 to Plate 0.06 max	
	Characteristics, Amplifler Class A	
	Plate Voltage	
	Mechanical:	
,	Mounting Position	
	Pin 1-Shell, (4) (5) Pin 5-Cathode	
<b>'</b>	Grid No.3  Pin 2-Heater  Pin 3-No  Connection  Pin 4-Grid No.1  Pin 6-Grid No.2  Pin 6-Grid No.2  Pin 7-Heater  Pin 8-Plate	
	AMPLIFIER - Class A	
	Maximum Ratings, Design-Center Values:	
,	PLATE VOLTAGE 300 max. volts GRID-No.2 (SCREEN) VOLTAGE 300 max. volts	
	← Indicates a change	
	DATA 1	





>	GRID-No.1 (CONTROL-GRID) VOLTAGE: Positive bias value	
	Circuit of Fig. 1:	
	With Grid-Resistor Bias	
	Used where dorestoration is accomplished in grid-No.1 circuit of the BAG?	_
	Plate Supply Voltage	
	With Cathode-Resistor Bias	
	Plate Supply Voltage       300       volts         Grid-No.2 Voltage <sup>0</sup> 125       volts         from series resistor of       25000       ohms         Grid-No.1 Voltage       -2       volts         Cathode Resistor (Bypassed with       57       ohms         Grid-No.1 Signal Voltage (Peak to Peak)       4       volts         Zero-Signal Plate Current       28       ma         Zero-Signal Grid-No.2 Current       7       ma         Load Resistor       3500       ohms         Voltage Output (Peak to Peak)       140       volts	(
	Maximum Circuit Values:	
	Grid-No.1-Circuit Resistance: For fixed-bias operation 0.25 max. megohm For cathode-bias operation 1.0 max. megohm  † obtained from supply having good regulation.	
	O Obtained preferably from 300-volt plate supply through resistor of value shown.	
		(
	a Indicates a chance	
	→ Indicates a change	ł

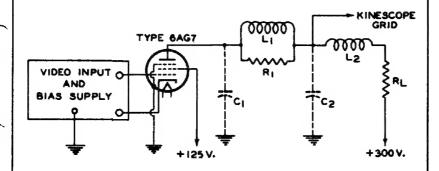
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DATA 1



### POWER PENTODE

Fig. 1 - Typical Video Voltage Amplifier Circuit Having Bandwidth of 4 Mc.



 $C_1 = 9.5 \mu\mu f = Tube Output Capacitance +.Socket$ Capacitance + Wiring Capacitance + Coil Capacitance

19  $\mu\mu$ f = Kinescope Capacitance + Socket Capacitance + Wiring Capacitance + Coil Capacitance

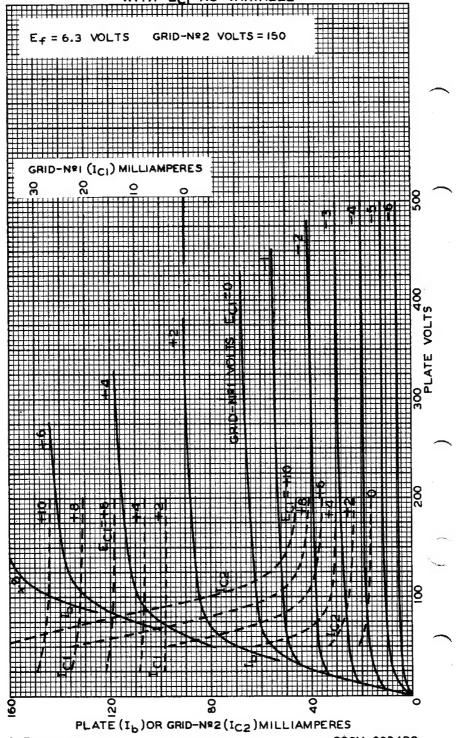
 $L_1 = 250 \, \mu h$  Filter Inductor

L<sub>2</sub> = 125 µh Filter Inductor R<sub>1</sub> = 20000-Ohm, Non-Reactive Resistor R<sub>L</sub> = 3500-Ohm, IO-Watt, Non-Reactive Resistor

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AVERAGE PLATE CHARACTERISTICS
WITH ECLAS VARIABLE



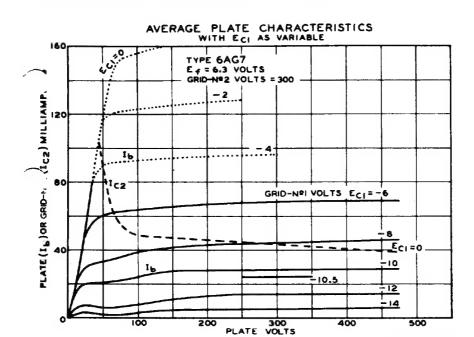
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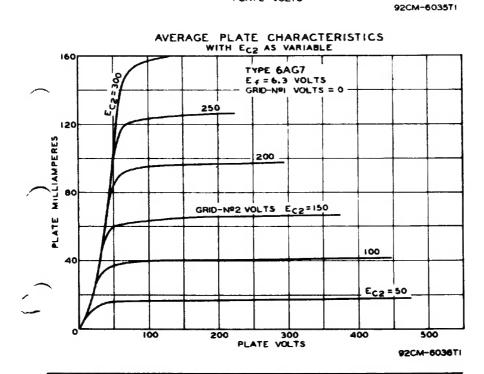
92CM-6034R2

TUBE DEPARTMENT



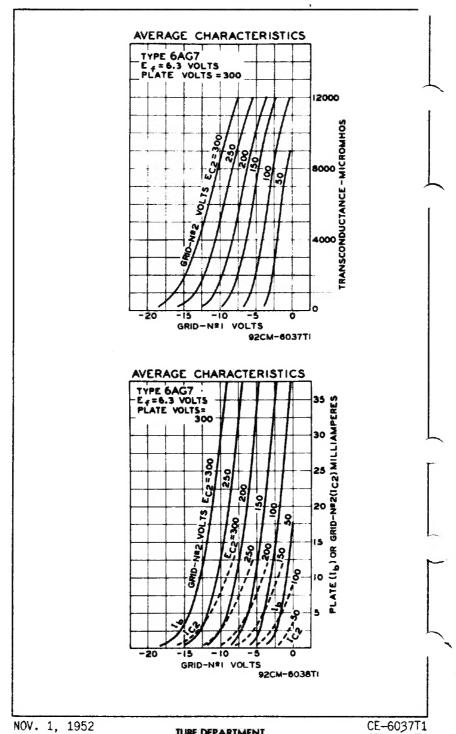








# POWER PENTODE



TUBE DEPARTMENT

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